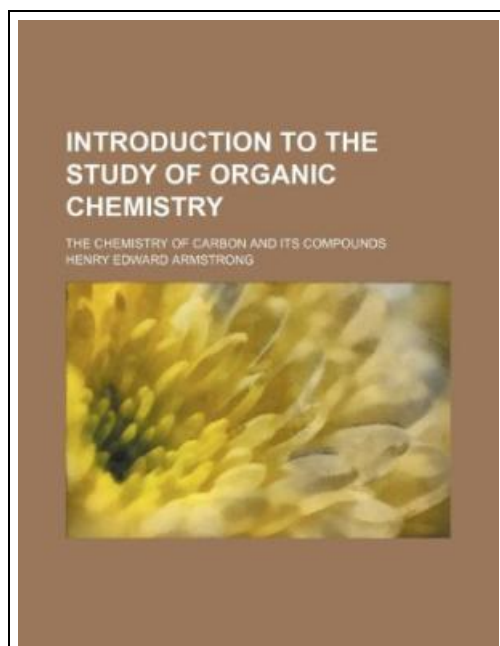


## Introduction to the Study of Organic Chemistry; The Chemistry of Carbon and Its Compounds



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## INTRODUCTION TO THE STUDY OF ORGANIC CHEMISTRY; THE CHEMISTRY OF CARBON AND ITS COMPOUNDS



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Rarebooksclub.com, United States, 2012. Paperback. Book Condition: New. 246 x 189 mm. Language: English . Brand New Book \*\*\*\*\* Print on Demand \*\*\*\*\*.This historic book may have numerous typos and missing text. Purchasers can download a free scanned copy of the original book (without typos) from the publisher. Not indexed. Not illustrated. 1882 Excerpt: .of the paraffins. The following have been obtained, but our knowledge of most of them is extremely imperfect: --Our experience of the chemical behaviour of these compounds is chiefly derived from the study of the first member of the series, to which the simple name of glycol is applied. Preparation and Properties of Glycols. 173 In most text-books attention is drawn to the fact that the difference between the boiling-points of the successive terms of this series appears to be in a contrary direction to that observed in other homologous series, i.e., that the lower members have higher boiling-points than the more complex terms of the series. At present slight weight attaches to this observation, however, since the known glycols are not strictly homologous; in other words, they do not all belong to the same isomeric series: some are primary, others are isoprimary, secondary, perhaps tertiaryglycols, and the comparison of their boiling-points is therefore nugatory. Preparation.--The one general method consists in acting upon the di-haloid derivatives (usually the bromo-derivatives) of the paraffins with potassic or argentic acetate, the resulting acetate being then saponified with potassic hydrate:  $C_nH_{2n}Br_2 + 2AgC_2H_3O_2 = 2AgBr + C_nH_{2n}(C_2H_3O_2)_2$   $C_nH_{2n}(C_2H_3O_2)_2 + 2KHO = 2KC_2H_3O_2 + C_nH_{2n}(OH)_2$ . Properties.--The glycols are colourless, more or less viscid liquids, easily soluble in water and alcohol. The oxidation of the glycols takes place at two stages: the first product is usually an oxyacid of the lactic series (general formula  $C_nH_{2n}(OH).CO_2H$ ); thus glycol yields glycollic acid (monoxyacetic acid):...



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